

Nexleaf Impact Metrics Calculation Explanations – Updated January 17, 2017

We calculate the number of babies born each year receiving vaccines protected by ColdTrace using population data, birth rate data, and immunization rates. We include the vaccinated child populations in our metrics only when ColdTrace is fully implemented at the health clinic level across an entire state or province. These statistics are therefore a conservative estimate and do not include the populations of locations where ColdTrace provides supplemental protection for large central vaccine stores. The dollar value of the vaccines we protect each day, however, does include instances where ColdTrace is helping safeguard national and provincial vaccine stores. At the health clinic level, ColdTrace protects **people and assets**. At higher levels in the health system, ColdTrace protects **assets**. Stats on number of devices deployed and countries with active deployments come from our records.

StoveTrace cooking hours are taken from the StoveTrace data dashboard and include all StoveTrace implementations since the Climate Credit Pilot Project (C2P2) started. C2P2 was a Project Surya program that began with the first installation on September 1, 2014 and concluded on April 30, 2016. This program utilized Sensor-Enabled Climate Financing, or the SCF model, to expand clean energy access. Usage measurements from ongoing SCF interventions and partner interventions are also included in our current impact statistics.

CO₂ equivalent is a measure for comparing the emissions from different greenhouse gases based on their global warming potential. Our numbers reflect the combination of carbon dioxide and black carbon mitigated for the same period as the number of cooking hours (including C2P2 intervention numbers, plus ongoing SCF and partner implementation numbers through the present). Black carbon, an emission of traditional cookstoves seen as soot, has a much higher warming potential per unit than carbon dioxide. Integrating black carbon valuation is what makes the SCF model financially viable. We calculate the number of cars taken off the road using the EPA calculator here:

<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>

To learn more about black carbon, visit:

<http://www.nature.com/ngeo/journal/v1/n4/full/ngeo156.html>

If you'd like additional clarification on these numbers, please contact us at info@nexleaf.org.